

I. Number	Hits	Search Text	DB	Time stamp
1	218	708/\$.ccls. and quantum	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:35
2	1	708/203.ccls. and quantum	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:34
3	25	708/\$.ccls. and quantum and compression	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:36
4	1	(708/\$.ccls. and quantum and compression) and eigenstates	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:36
5	1	(708/\$.ccls. and quantum and compression) and eigenstate\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:36
6	6	(708/\$.ccls. and quantum and compression) and project\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:38
7	19	compression and quantum and eigenstate\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:38
8	18	(compression and quantum and eigenstate\$1) not ((708/\$.ccls. and quantum and compression) and eigenstates)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:42
9	3015	(compress\$5.ti. or compress\$5.ab. or compress\$5.clm.) and quantum	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:42
10	21	((compress\$5.ti. or compress\$5.ab. or compress\$5.clm.) and quantum) and (quantum adj information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:43
11	20	((((compress\$5.ti. or compress\$5.ab. or compress\$5.clm.) and quantum) and (quantum adj information)) not ((compression and quantum and eigenstate\$1) not ((708/\$.ccls. and quantum and compression) and eigenstates))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:50
12	1	compress\$5 and eigenstate\$1 and (Shannon-Fano or Shannon adj Fano)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:51
13	1	compress\$5 and eigenstate\$1 and (Shannon-Fano or (Shannon adj Fano))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/08 08:51

14	83	compress\$5 and (Shannon-Fano or (Shannon adj Fano))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/10/08 08:51
15	83	compress\$5 and (Shannon-Fano or (Shannon adj Fano))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/10/08 08:51
16	3	project\$3 and (compress\$5 and (Shannon-Fano or (Shannon adj Fano)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/10/08 08:51

Quantum Physics

Authors and titles for May 1998

quant-ph/9805001 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Purifying noisy entanglement requires collective measurements

Authors: [N. Linden](#), [S. Massar](#), [S. Popescu](#)

Comments: 5 pages, Latex

Journal-ref: Phys.Rev.Lett. 81 (1998) 3279-3282

quant-ph/9805002 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: The Initialization Problem in Quantum Computing

Authors: [Subhash Kak](#) (Louisiana State University)

Comments: 12 pages (the final version as it was published)

Journal-ref: Foundations of Physics, vol 29, 1999, pages 267-279

quant-ph/9805003 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum Communication with Phantom Photons

Authors: [S.J. van Enk](#), [H.J. Kimble](#), [J.I. Cirac](#), [P. Zoller](#)

Comments: 6 pages RevTex, 4 eps figures included. Revised calculation with more details about mode structure calculation and the introduction of losses

quant-ph/9805004 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Wigner transform and quantum-like corrections for charged-particle beam transport

Authors: [R. Fedele](#), [V.I. Man'ko](#)

Comments: LaTeX [sproc] 3 pages, to be published in Proceedings of the 5th Wigner Symposium (Vienna, 25-29 August, 1997)

quant-ph/9805005 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Wave function of a Brownian particle

Authors: [R. M. Cavalcanti](#)

Comments: 6 pages, REVTEX. Published version

Subj-class: Quantum Physics; Statistical Mechanics

Journal-ref: Phys.Rev. E58 (1998) 6807

quant-ph/9805006 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum Oracle Interrogation: Getting all information for almost half the price

Authors: [Wim van Dam](#) (U of Oxford, CWI)

Comments: 11 pages LaTeX2e, 1 postscript figure; error analysis added; new section on approximate interrogation added

Subj-class: Quantum Physics; Computational Complexity

Journal-ref: Proceedings of the 39th Annual IEEE Symposium on Foundations of Computer Science (FOCS'98), pages 362-367.

quant-ph/9805007 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Classical properties of generalized coherent states: from phase-space dynamics to Bell's inequality

Authors: [C. Brif](#), [A. Mann](#), [M. Revzen](#) (Technion, Haifa)

Comments: LaTeX2e, amssymb style, 11 pages, 1 figure. Presented at 2nd Jagna International Workshop "Mathematical Methods of Quantum Physics", January 1998, Jagna, Philippines. To be published in a Festschrift for Professor Hiroshi Ezawa (Gordon & Breach, London)

quant-ph/9805008 [abs, ps, pdf, other] :

Title: A New Approach to Locality and Causality
Author: B.G. Sidharth
Comments: 12 pages, TeX

quant-ph/9805009 [abs, ps, pdf, other] :

Title: The Chiral Oscillator and its Applications in Quantum Theory
Authors: R.Banerjee, S.Ghosh
Comments: Latex
Journal-ref: J.Phys. A31 (1998) L603-L608

quant-ph/9805010 [abs, ps, pdf, other] :

Title: Toward a finite-dimensional formulation of Quantum Field Theory
Author: Miguel Navarro
Comments: Latex file, 12 pages
Journal-ref: Found.Phys.Lett. 11 (1998) 585-593

quant-ph/9805011 [abs, ps, pdf, other] :

Title: The Piecewise Deterministic Process Associated to EEQT
Authors: Ph. Blanchard, A. Jadczyk, R. Olkiewicz
Comments: 22 pages Latex, revtex. Replacement contains a more detailed discussion of the inhomogeneous Markov process and several additional explanations

quant-ph/9805012 [abs, ps, pdf, other] :

Title: Measurable and Unmeasurable in "Protective" Measurements
Authors: N.D. Hari Dass (IMSc, Madras, India), Tabish Qureshi (IGCAR, Kalpakkam, India.)
Comments: 14 pages RevTex, many significant additions, submitted for publication in PRA
Journal-ref: Phys.Rev. A59 (1999) 2590

quant-ph/9805013 [abs, ps, pdf, other] :

Title: Towards a Unified Description of the Fundamental Interactions
Author: B.G. Sidharth
Comments: 8 pages, TeX
Journal-ref: Chaotic Universe, Nova Science, New York, 2001

quant-ph/9805014 [abs, ps, pdf, other] :

Title: Path Integral Quantization and Riemannian-Symplectic Manifolds
Authors: Sergei V. Shabanov, John R. Klauder
Comments: plain Latex, 9 pages, no figures
Subj-class: Quantum Physics; Mathematical Physics
Journal-ref: Phys.Lett. B435 (1998) 343-349

quant-ph/9805015 [abs, ps, pdf, other] :

Title: A Rudimentary Quantum Compiler
Authors: Robert R. Tucci

Comments: 1 LaTeX file (25 pages), 9 eps files

quant-ph/9805016 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: How to Compile A Quantum Bayesian Net

Authors: [Robert R. Tucci](#)

Comments: 1 LaTeX file (14 pages), 5 eps files

quant-ph/9805017 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Universal Quantum Information Compression

Authors: [Richard Jozsa](#), [Michal Horodecki](#), [Pawel Horodecki](#), [Ryszard Horodecki](#)

Comments: RevTex 4 pages

Journal-ref: Phys.Rev.Lett. 81 (1998) 1714-1717

quant-ph/9805018 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Logical Dissipation of Automata Implements - Dissipation of Computation

Authors: [Philippe Matherat](#) (Ecole Nationale Supérieure des Télécommunications), [Marc-Thierry Jaekel](#) (Laboratoire de Physique Théorique de l'Ecole Normale Supérieure)

Comments: 12 pages, 13 figures

Subj-class: Quantum Physics; Logic

Journal-ref: T.S.I. 15 (1996) 1079

quant-ph/9805019 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Optimal eavesdropping in quantum cryptography with six states

Authors: [Dagmar Bruss](#)

Comments: 4 pages, 1 figure

Journal-ref: Phys.Rev.Lett. 81 (1998) 3018-3021

quant-ph/9805020 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum State Reconstruction From Incomplete Data

Authors: [V. Buzek](#), [G. Drobny](#), [R. Derka](#), [G. Adam](#), [H. Wiedemann](#)

Comments: 85 pages, revtex, 15 figures, 9 tables

quant-ph/9805021 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum mechanical 'Backward in Time'? Comments, Answers, and the Causal Indistinguishability Condition

Authors: [Antoine Suarez](#) (Center for Quantum Philosophy, Zurich)

Comments: 16 pages Latex, 1 eps figure. The same content differently arranged has been submitted to Physics Letters A

quant-ph/9805022 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Phase Information in Quantum Oracle Computing

Authors: [J. Machta](#)

Comments: 3 pages, latex

quant-ph/9805023 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Sonoluminescence: Bogolubov coefficients for the QED vacuum of a time-dependent dielectric bubble

Authors: [Matt Visser](#), [S. Liberati](#), [F. Belgiorno](#), [D.W. Sciama](#)

Comments: 4 pages, RevTeX, 2 figures (.eps file) included with graphics.sty. Major revisions: physical scenario clarified,

additional numerical estimates

Journal-ref: Phys.Rev.Lett. 83 (1999) 678-681

quant-ph/9805024 [abs, ps, pdf, other] :

Title: Asymmetric quantum cloning machines in any dimension

Authors: Nicolas J. Cerf (Caltech)

Comments: 18 pages RevTeX, 3 Postscript figures; new discussion on no-cloning uncertainty relations, several corrections, added references

Journal-ref: J.Mod.Opt. 47 (2000) 187

quant-ph/9805025 [abs, ps, pdf, other] :

Title: Product rule for gauge invariant Weyl symbols and its application to the semiclassical description of guiding center motion

Authors: Michael Mueller

Comments: 24 pages, RevTeX, no figures; shortened version will be published in J.Phys.A

Journal-ref: J.Phys. A32 (1999) 1053-1064

quant-ph/9805026 [abs, ps, pdf, other] :

Title: Bound states of a spin-1/2 charged particle in a magnetic flux tube

Authors: R. M. Cavalcanti, C. A. A. de Carvalho

Comments: 4 pages, REVTeX. Final version, to appear in J. Phys. A: Math. Gen

Subj-class: Quantum Physics; Mathematical Physics

Journal-ref: J.Phys. A31 (1998) 7061-7063

quant-ph/9805027 [abs, ps, pdf, other] :

Title: Physical interpretation of stochastic Schroedinger equations in cavity QED

Author: Tarso B.L. Kist, M. Orszag, T.A. Brun, L. Davidovich

Comments: 12 pages RevTeX 3.0 + 6 figures (GIF format; for higher-resolution postscript images or hardcopies contact the authors.) Submitted to Phys. Rev. A

quant-ph/9805028 [abs, ps, pdf, other] :

Title: Retrodictively Optimal Localisations in Phase Space

Authors: D. M. Appleby

Comments: 11 pages, 2 figures. AMS Latex. Replaced with published version

Journal-ref: J.Mod.Opt. 46(1999) 813-823

quant-ph/9805029 [abs, ps, pdf, other] :

Title: Strong excitations of a Bose-Einstein condensate: Barrier resonances

Authors: Juan J. G. Ripoll, Victor M. Perez-Garcia

Comments: 4 pages, 3 EPS figures

quant-ph/9805030 [abs, ps, pdf, other] :

Title: Localization of Events in Space-Time

Authors: Marco Toller (Department of Physics of the University, I. N. F. N., Trento, Italy)

Comments: 31 pages, latex, no figures

Journal-ref: Phys.Rev. A59 (1999) 960

quant-ph/9805031 [abs, ps, pdf, other] :

Title: Sonoluminescence as a QED vacuum effect: Probing Schwinger's proposal

Authors: [S. Liberati](#), [F. Belgiorno](#), [Matt Visser](#), [D.W. Sciana](#)

Comments: 18 pages, ReV_TeX 3.2, 9 figures. Major revisions: This document is now limited to providing a probe of Schwinger's original suggestion for sonoluminescence. For details on our own variant of Schwinger's ideas see [quant-ph/9805023](#), [quant-ph/9904013](#), [quant-ph/9904018](#), [quant-ph/9905034](#)

Journal-ref: J.Phys. A33 (2000) 2251-2272

quant-ph/9805032 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Measuring quantum optical Hamiltonians

Authors: [G. M. D'Ariano](#), [L. Maccone](#) (Dipartimento di Fisica "A. Volta", Pavia, Italy)

Comments: Accepted for publication on Phys. Rev. Lett. 8 eps figures, 4 two-column pages in REVTeX

Journal-ref: Phys.Rev.Lett. 80 (1998) 5465-5468

quant-ph/9805033 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Controlling Quantum State Reduction

Author: [Masanao Ozawa](#) (Nagoya University)

Comments: 9 pages, REVTeX

Journal-ref: Phys.Lett. A282 (2001) 336-342

quant-ph/9805034 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Maximal violation of Bell's inequality and atomic cascade photons

Author: [M. Ardehali](#)

Comments: LaTeX file, 18 pages, no figures. The paper has been significantly modified. It is shown that the in the case of ideal experiments, the inequality derived in this paper is equivalent to Bell's original inequality of 1965 which, as is well known, is violated by a factor of 1.5. The crucial point is that even in the case of real experiments where polarizers and detectors are non-ideal, the present inequality is violated by a factor of 1.5, whereas previous inequalities such as CHSH inequality of 1969 and CH inequality of 1974 are violated by a factor of $\sqrt{2}$

quant-ph/9805035 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Composite absorbing potentials

Authors: [J. P. Palao](#), [J. G. Muga](#), [R. Sala](#)

Comments: 9 pages, Revtex, 2 postscript figures. Accepted in Phys. Rev. Lett

Journal-ref: Phys.Rev.Lett. 80 (1998) 5469-5472

quant-ph/9805036 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: The addition of the lower level to spectrums of matrix and scalar components of d=2 SUSY Hamiltonian

Author: [S B Leble](#), [A V Yurov](#) (Technical University of Gdansk, Kaliningrad State University)

Comments: amstex

quant-ph/9805037 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum Whispers

Authors: [Lucien Hardy](#) (U of Oxford), [Wim van Dam](#) (U of Oxford, CWI)

Comments: LaTeX2e document, 16 pages, 5 figures, all 6 files should be in the same directory before processing the LaTeX file

Journal-ref: Physical Review A, Volume 59, No. 4, pp. 2635-2640 (1999)

quant-ph/9805038 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Collectivity, Phase Transitions and Exceptional Points in Open Quantum Systems

Authors: [W.D. Heiss](#), [M. Mueller](#), [I. Rotter](#)

Comments: 22 pages, 4 figures

Journal-ref: Phys.Rev. E58 (1998) 2894-2901

quant-ph/9805039 [abs, ps, pdf, other] :

Title: Scale decoherence in inhomogeneous potentials

Author: David A. Meyer (University of California/San Diego)

Comments: 10 pages, plain TeX, 4 PostScript figures included with epsf.tex (ignore the under/overflow vbox error messages)

quant-ph/9805040 [abs, ps, pdf, other] :

Title: Optical Tachyons in Parametric Amplifiers: How Fast Can Quantum Information Travel?

Authors: G. Kurizki, A. E. Kozhekin, A. G. Kofman (Weizmann Inst. of Science, Israel), M. Blaauboer (Vrije Universiteit, The Netherlands)

Comments: Contribution to the Internet session, VII Seminar on Quantum Optics (Raubichi, BELARUS, May 18-20, 1998), see [this http URL](#) (10 pages, RevTeX, 8 figures)

Subj-class: Quantum Physics; Optics

Journal-ref: Opt.Spectrosc. 87 (1999) 505-512

quant-ph/9805041 [abs, ps, pdf, other] :

Title: Semiclassical Time Evolution and Trace Formula for Relativistic Spin-1/2 Particles

Authors: Jens Bolte, Stefan Keppeler

Comments: 8 pages, no figures

Subj-class: Quantum Physics; Mathematical Physics; Chaotic Dynamics

Journal-ref: Phys.Rev.Lett. 81 (1998) 1987-1991

quant-ph/9805042 [abs, ps, pdf, other] :

Title: Shape Invariance and Its Connection to Potential Algebra

Authors: Asim Gangopadhyaya, Jeffrey V. Mallow, Uday P. Sukhatme

Comments: Latex File, 10 pages, One figure available on request. Appeared in the proceedings of the workshop on "Supersymmetric Quantum Mechanics and Integrable Models" held at University of Illinois, June 12-14, 1997; Ed. H. Aratyn et al

quant-ph/9805043 [abs, src] :

Title: Quantum Harmonic Sieve: Learning DNF with a Classical Example Oracle

Authors: Dan Ventura, Tony Martinez

Comments: 33 pages

quant-ph/9805044 [abs, ps, pdf, other] :

Title: Frequency up-converted radiation from a cavity moving in vacuum

Authors: A. Lambrecht, M.T.Jaekel, S. Reynaud

Comments: 10 pages, 3 figures, LaTeX, to appear in European Physical Journal D3, replaced version with few minor grammatical changes

Journal-ref: Eur.Phys.J. D3 (1998) 95-104

quant-ph/9805045 [abs, ps, pdf, other] :

Title: Quantum teleportation of a single-photon wave packet

Author: S.N.Molotkov (Institute of Solid State Physics, Russian Academy of Sciences)

Comments: 6 pages, no figures

Journal-ref: Phys.Lett. A245 (1998) 339-344

quant-ph/9805046 [abs, ps, pdf, other] :

Title: Hydrodynamical quantum state reconstruction

Authors: Lars M. Johansen

Comments: 4 pages, 3 figures, to appear in Phys. Rev. Lett

Journal-ref: Phys.Rev.Lett. 80 (1998) 5461-5464

quant-ph/9805047 [abs, ps, pdf, other] :

Title: Is quantum mechanics non-local?

Author: Henry P. Stapp

Comments: Reply to the revised (April 27, 1998) version of [quant-ph/9710032](#) Unruh's paper has been accepted by Phys. Rev.

A: My reply submitted 5/15/98

quant-ph/9805048 [abs, ps, pdf, other] :

Title: Generating and monitoring Schrödinger cats in conditional measurement on a beam splitter

Authors: M. Dakna, J. Clausen, L. Knoll, D.-G. Welsch

Comments: 6 figures using a4.sty

quant-ph/9805049 [abs, ps, pdf, other] :

Title: True Collapse and False Collapse

Authors: Philip Pearle

Comments: 14 pages, Tex

Journal-ref: Quantum Classical Correspondence: Proceedings of the 4th Drexel Symposium on Quantum Nonintegrability, Philadelphia, PA, USA, September 8-11, 1994, pp. 51-68. Edited by Da Hsuan Feng and Bei Lok Hu. Cambridge, MA: International Press, 1997

quant-ph/9805050 [abs, ps, pdf, other] :

Title: Tales and Tails and Stuff and Nonsense

Authors: Philip Pearle

Comments: 14 pages, Tex

Journal-ref: Experimental Metaphysics-Quantum Mechanical Studies in Honor of Abner Shimony, volume 1, edited by R. S. Cohen, M. A. Horne and J. S. Stachel (Kluwer, Great Britain 1997) pp.143-156

quant-ph/9805051 [abs, ps, pdf, other] :

Title: On a Resolution of the Identity in Terms of Coherent States

Author: Boris F. Samsonov

quant-ph/9805052 [abs, ps, pdf, other] :

Title: On the problem of interactions in quantum theory

Author: Felix M. Lev

Comments: 35 pages, Latex

quant-ph/9805053 [abs, ps, pdf, other] :

Title: Reconstruction of diagonal elements of density matrix using maximum likelihood estimation

Authors: Z. Hradil, R. Myska

Comments: LaTeX, 5 pages, 7 figures; to be published in acta physica slovac

Journal-ref: Acta Phys.Slov. 48 (1998) 199-205

quant-ph/9805054 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Generalized Husimi Functions: Analyticity and Information Content

Authors: [D. M. Appleby](#)

Comments: 16 pages, 2 figures, AMS-latex. Replaced with published version

Journal-ref: J.Mod.Opt. 46 (1999) 825-841

quant-ph/9805055 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Information measures and classicality in quantum mechanics

Authors: [C. Anastopoulos](#)

Comments: 35 pages; LATEX

Journal-ref: Phys.Rev. D59 (1999) 045001

quant-ph/9805056 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Consistent Quantum Counterfactuals

Authors: [Robert B. Griffiths](#) (Carnegie Mellon University)

Comments: Minor modifications to make it agree with published version. Latex 8 pages, 2 figures

Journal-ref: Phys.Rev. A60 (1999) 5-8

quant-ph/9805057 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Arrival Times in Quantum Theory from an Irreversible Detector Model

Authors: [J. J. Halliwell](#) (Imperial College, London)

Comments: 19 pages, plain Tex (Fourth revision). To appear in Prog.Th.Phys. Vol. 102, No. 4

Journal-ref: Prog.Theor.Phys. 102 (1999) 707-717

quant-ph/9805058 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum probability distribution of arrival times and probability current density

Author: [V. Delgado](#) (Univ. La Laguna)

Comments: 21 pages, 7 figures, LaTeX; Revised version to appear in Phys. Rev. A (many small changes)

Journal-ref: Phys.Rev. A59 (1999) 1010

quant-ph/9805059 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: NMR Quantum Automata in Doped Crystals

Authors: [Haiqing Wei](#), [Xin Xue](#), [S. D. Morgera](#)

Comments: Latex file, one eps figure

quant-ph/9805060 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Dynamics of decoherence in continuous atom-optical quantum nondemolition measurements

Authors: [Roberto Onofrio](#), [Lorenza Viola](#)

Comments: 9 pages, plain ReVTeX, 4 figures. To be published in Physical Review A 58, 1 July 1998

quant-ph/9805061 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Electron acceleration due to photon absorption: A possible origin of the infinity problems in relativistic quantum fields

Authors: [W. A. Hofer](#) (TU-Wien)

Comments: 4 pages (RevTeX, twocolumn) and 2 figures (eps). Journal reference updated and the effects of time dilation

explained more thoroughly. For a list of available papers see [this http URI](#).

Subj-class: Quantum Physics; Popular Physics

quant-ph/9805062 [abs, ps, pdf, other] :

Title: Decoherent Histories and Hydrodynamic Equations

Authors: [J. J. Halliwell](#) (Imperial College, London)

Comments: 35 pages, plain Tex, revised after refereeing

Journal-ref: Phys.Rev. D58 (1998) 105015

quant-ph/9805063 [abs, ps, pdf, other] :

Title: Quantum Theory in the Rigged Hilbert Space-Irreversibility from Causality

Authors: [A. Bohm](#), [N. L. Harshman](#)

Comments: 60 pages, to appear in Irreversibility and Causality in Quantum Theory: Semigroups and Rigged Hilbert Space, Arno Bohm, H.D. Doebner, P. Kielanowski, eds; Vol. 504 Springer Lecture Notes in Physics

quant-ph/9805064 [abs, ps, pdf, other] :

Title: When does a Measurement or Event Occur

Authors: [J. Oppenheim](#), [B. Reznik](#), [W. G. Unruh](#)

Comments: 8 pages, no figures minor wording change

Journal-ref: Found.Phys.Lett. 13 (2000) 107-118

quant-ph/9805065 [abs, ps, pdf, other] :

Title: Decoherence, Einselection, and the Existential Interpretation (the Rough Guide)

Author: [Wojciech H. Zurek](#)

Comments: 27 pages in LaTeX, 3 figures, to appear in Philosophical Transactions of the Royal Society, Mathematical, Physical and Engineering Sciences

Journal-ref: Phil.Trans.Roy.Soc.Lond. A356 (1998) 1793-1820

quant-ph/9805066 [abs, ps, pdf, other] :

Title: On Reichenbach's common cause principle and Reichenbach's notion of common cause

Authors: [G. Hofer-Szabo](#) (1), [M. Rédei](#) (2), [L. E. Szabo](#) (2) ((1) Technical University of Budapest, (2) Eotvos University, Budapest)

Comments: 15 pages, LaTeX

Subj-class: Quantum Physics; Mathematical Physics; Probability

quant-ph/9805067 [abs, ps, pdf, other] :

Title: The broadcast quantum channel for classical information transmission

Authors: [A.E. Allahverdyan](#), [D.B. Saakian](#)

Comments: LaTeX file, 8 pages

quant-ph/9805068 [abs, ps, pdf, other] :

Title: Does quantum chaos exist? (A quantum Lyapunov exponents approach.)

Authors: [W. A. Majewski](#)

Comments: Latex, 28 pages

Subj-class: Quantum Physics; Mathematical Physics; Chaotic Dynamics

quant-ph/9805069 [abs, ps, pdf, other] :

Title: Implementation of a Quantum Search Algorithm on a Nuclear Magnetic Resonance Quantum Computer

Authors: J. A. Jones, M. Mosca, R. H. Hansen (University of Oxford, UK)

Comments: Six pages, three figures

Journal-ref: Nature 393 (1998) 344-346

quant-ph/9805070 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum Logic Gates and Nuclear Magnetic Resonance Pulse Sequences

Authors: J. A. Jones, R. H. Hansen, M. Mosca (University of Oxford, UK)

Comments: Sixteen pages, no figures. Submitted to Journal of Magnetic Resonance. Primarily pedagogical rather than a description of novel research results

Journal-ref: J.Magn.Resonance 135 (1998) 353-360

quant-ph/9805071 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Practical free-space quantum key distribution over 1 km

Authors: W. T. Buttler, R. J. Hughes, P. G. Kwiat, S. K. Lamoreaux, G. G. Luther, G. L. Morgan, J. E. Nordholt, C. G. Peterson, C. M. Simmons

Comments: 5 pages, 2 figures, 2 tables. Submitted to Physics Review Letters, May 1998

Journal-ref: Phys.Rev.Lett. 81 (1998) 3283-3286

quant-ph/9805072 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Entanglement and thermodynamical analogies

Authors: Pawel Horodecki, Ryszard Horodecki, Michal Horodecki

Comments: RevTeX, 11 pages

Journal-ref: Acta Phys.Slov. 48 (1998) 141-156

quant-ph/9805073 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Optimal Copying of One Quantum Bit

Authors: Chi-Sheng Niu, Robert B. Griffiths

Comments: RevTex, 26 pages, 2 Postscript figures

Journal-ref: Phys.Rev. A58 (1998) 4377-4393

quant-ph/9805074 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Is the EPR paradox really a paradox?

Authors: A. Tartaglia (Dipartimento di Fisica, Politecnico Torino, Italy)

Comments: Latex

Journal-ref: European Journal of Physics, 19,307, (1998)

quant-ph/9805075 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Time Machines and the Breakdown of Unitarity

Authors: Frank Antonen, Karsten Bornann

Comments: standard LaTeX

Journal-ref: Int.J.Theor.Phys. 37 (1998) 2383-2393

quant-ph/9805076 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Full observation of single-atom dynamics in cavity QED

Authors: Hideo Mabuchi, Jun Ye, H. Jeff Kimble

Comments: Submitted to Applied Physics B. Uses Revtex, 13 pages with 11 EPS figures

Subj-class: Quantum Physics; Atomic Physics

quant-ph/9805077 [abs, ps, pdf, other] :

Title: In-loop squeezing is real squeezing to an in-loop atom
Authors: H.M. Wiseman
Comments: 4 pages, 2 figures, submitted to PRL
Journal-ref: Phys.Rev.Lett. 81 (1998) 3840-3843

quant-ph/9805078 [abs, ps, pdf] :

Title: New Concept of Dynamic Complexity in Quantum Mechanics and Beyond
Authors: Andrei P. Kirilyuk
Comments: 5 pages, PostScript 3.0 from an MS Word file; a non-technical interpretation of recently published results
Subj-class: Quantum Physics; Chaotic Dynamics
Journal-ref: Annales Fond.Broglie 21 (1996) 455-480

quant-ph/9805079 [abs, ps, pdf, other] :

Title: On Quantum Mechanics
Author: F. Ghaboussi
Comments: 9 pages, latex, revised version2

quant-ph/9805080 [abs, ps, pdf, other] :

Title: A quantum analog of Huffman coding
Authors: Samuel L. Braunstein, Christopher A. Fuchs, Daniel Gottesman, Hoi-Kwong Lo
Comments: Revised version, 7 pages, two-column, RevTex. Presented at 1998 IEEE International Symposium on Information Theory

quant-ph/9805081 [abs, ps, pdf, other] :

Title: Measurement Process In a Two-Barrier System
Author: L. Stodolsky (Max-Planck-Institut für Physik)
Comments: Completely revised discussion of transmitted current, otherwise mostly minor editorial changes
Journal-ref: Phys.Lett. B459 (1999) 193

quant-ph/9805082 [abs, ps, pdf, other] :

Title: Quantum Counting
Authors: Gilles Brassard (1), Peter Hoyer (2), Alain Tapp (1) ((1) Universite de Montreal, (2) Odense University)
Comments: 12 pages, LaTeX2e

quant-ph/9805083 [abs, ps, pdf, other] :

Title: Remarks on Universal Quantum Computer
Authors: Yu Shi
Comments: Revtex, 14 pages
Journal-ref: Phys.Lett. A293 (2002) 277-282

quant-ph/9805084 [abs, ps, pdf, other] :

Title: Generalized Noiseless Quantum Codes utilizing Quantum Enveloping Algebras
Authors: Michio Durdevich, Hanna E. Makaruk, Robert Owczarek
Comments: 10 pages, LaTeX, 2 figures Postscript

Journal-ref: J.Phys. A34 (2001) 1423-1438

quant-ph/9805085 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Schrödinger operators with complex potential but real spectrum

Authors: [Francesco Cannata](#), [Georg Junker](#), [Johannes Trost](#)

Comments: 10, pages, LaTeX 2.09, 6 Postscript figures, uses amsfont, figures available at [this http URL](#)

Subj-class: Quantum Physics; Mathematical Physics

Journal-ref: Phys.Lett. A246 (1998) 219-226

quant-ph/9805086 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum Effects in Algorithms

Authors: [Richard Jozsa](#)

Comments: 10 pages, Latex. For Proceedings of First NASA International Conference on Quantum Computation and Quantum Communication (Palm Springs, February 1998)

quant-ph/9805087 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Interfering resonances in a quantum billiard

Authors: [E. Persson](#), [K. Fichugin](#), [I. Rotter](#), [P. Seba](#)

Comments: 2 pages, 3 figures

Journal-ref: Phys.Rev. E58 (1998) 8001-8004

quant-ph/9805088 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Entangled Mixed States and Local Purification

Authors: [Adrian Kent](#)

Comments: 3 pages, Latex with Revtex. Small clarifications and reference added

Journal-ref: Phys.Rev.Lett. 81 (1998) 2839-2841

chao-dyn/9805020 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Quantum baker map on the sphere

Authors: [Prot Pakonski](#), [Andrzej Ostruszka](#), [Karol Życzkowski](#)

Comments: REVTeX 15 pages, 6 figures included (ps format), final published version with generalization of the model

Subj-class: Chaotic Dynamics

Journal-ref: Nonlinearity 12 (1999) 269-284

cond-mat/9805081 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: New approach to Borel summation of divergent series and critical exponent estimates for an N-vector cubic model in three dimensions from five-loop ϵ expansions

Author: [Andrei Mudrov](#), [Konstantin Varnashev](#)

Comments: 9 pages, LaTeX, 3 PostScript figures

Subj-class: Statistical Mechanics

Journal-ref: Phys.Rev. E58 (1998) 5371-5375

gr-qc/9805014 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Title: Emergence of classicality for primordial fluctuations: Concepts and analogies

Authors: [C. Kiefer](#), [D. Polarski](#)

Comments: 25 pages, Latex, typos corrected, reference added

Journal-ref: Annalen Phys. 7 (1998) 137-158

gr-qc/9805067 [abs, ps, pdf, other] :

Title: Can general-relativistic description of gravitation be considered complete?

Author: D. V. Ahluwalia

Comments: Essay Awarded "Honorable Mention" by Gravity Research Foundation (1998). The answer to the question posed in the title is an experimentally verifiable "no."

Journal-ref: Mod.Phys.Lett. A13 (1998) 1393-1400

gr-qc/9805076 [abs, ps, pdf, other] :

Title: Universe as a Phase Boundary in a Four-Dimensional Euclidean Space

Author: Michael Grady

Comments: 7 pages, Latex, no figures. Many arguments substantially expanded, new introduction

hep-ph/9805263 [abs, ps, pdf, other] :

Title: Covariant Model of Relativistic Extended Particles based on the Oscillator Representation of the Poincaré Group

Authors: Y. S. Kim

Comments: RevTeX, 20 pages, 2 psfigs, contribution to the Volume dedicated to Prof. T.Y.Wu on his 90th Birthday (to be published by World Scientific, Singapore)

Subj-class: High Energy Physics - Phenomenology, Mathematical Physics

hep-ph/9805360 [abs, ps, pdf, other] :

Title: Time evolution of correlation functions for classical and quantum anharmonic oscillators

Authors: Luis M. A. Bettencourt (Los Alamos), C. Wetterich (U. of Heidelberg)

Comments: 4 pages, 4 figures, RevTeX, revised version

hep-th/9805159 [abs, ps, pdf, other] :

Title: Magnetic Catalysis of Dynamical Symmetry Breaking and Aharonov-Bohm Effect

Author: V. A. Miransky

Comments: 8 pages, RevTeX. Based on the talk given at the Workshop "Nonperturbative Methods in Quantum Field Theory" (February 1998, Adelaide). A reference is added

math-ph/9805012 [abs, ps, pdf, other] :

Title: Fast Quantum Maps

Authors: G. G. Athanasiu (U. Crete), E. G. Floratos (NRCPS Demokritos), S. Nicolis (CNRS-LMPT Tours)

Comments: 10 pages LaTeX (needs amssymb.sty)

Subj-class: Mathematical Physics; Chaotic Dynamics

Journal-ref: J.Phys. A31 (1998) L655

math-ph/9805017 [abs, ps, pdf, other] :

Title: The Bargmann-Wigner Formalism for Spin 2

Author: Valeri V. Dvoeglazov (EFUAZ)

Comments: ReVTeX file, 6pp

Subj-class: Mathematical Physics

Journal-ref: Adv. Appl. Clifford Algebras v. 10 , No. 1 (2000) pp. 7-14

math-ph/9805022 [abs, ps, pdf, other] :

Title: Adiabatic Theorem without a Gap Condition

Authors: J.E. Avron, A. Elgart

Comments: 23 pages, revised and extended with 4 figures, to appear in Comm. Math. Phys

Subj-class: Mathematical Physics; Spectral Theory; Atomic Physics

Journal-ref: Commun.Math.Phys. 203 (1999) 445-463

physics/9805027 [abs, ps, pdf, other] :

Title: Quantum-classical correspondence in the hydrogen atom in weak external fields

Authors: [Paolo Bellomo](#), [C. R. Stroud, Jr.](#), [David Farely](#), [T. Uzer](#)

Comments: 18 pages, 1 postscript figure. My previous experience suggests that one should go for the 600 dpi postscript with bitmapped fonts. In this new version I have simply corrected a few typos

Subj-class: Atomic Physics; Chemical Physics; Classical Physics

Journal-ref: Phy. Rev. A 38, 3896 (1998)

List remaining 1 entries

Links to: [arXiv](#), [quant-ph](#), [/find](#), [/abs](#), ? [form interface](#)
